

State of Utah

JON M. HUNTSMAN, JR. Governor

GARY R. HERBERT Lieutenant Governor

Department of Administrative Services

KIMBERLY K. HOOD Executive Director

Division of Facilities Construction and Management DAVID G. BUXTON Director

ADDENDUM No. 1

Date: February 2, 2009

To: Contractors

From: Brian Bales, Project Manager, DFCM

Reference: Salt Lake Community College

South City Campus – Fire Alarm Upgrade

DFCM Project No. 08074670

Subject: Addendum No. 1

Addendum Cover Sheet **Pages** 1 page

Engineer's Addendum page **Drawings** pages Total 6 pages

Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

- 1.1 **SCHEDULE CHANGES:** No schedule changes
- 1.2 **GENERAL ITEMS:** Engineer's addendum containing clarifications and drawings.



Date: February 2, 2009

To: Brian Bales

State of Utah DFCM

From: Greg Jones

Protection Consultants, Inc.

Project: SLCC South Campus Fire Alarm Upgrade – DFCM 08074670

Subject: Revisions to Fire Alarm Drawings for Addendum 1

Based on conditions observed in the pre-bid walkthrough held Monday January 26, 2009 at the SLCC South Campus Building and recommendation from Clint Haymond, a few revisions were made to the drawings for the fire alarm system upgrade. A brief description of the revisions made to each drawing sheet is included below. The scope of the changes is not excessive. Only Sheets FA-10, FA-11, FA-12 and FA-19 were revised. The revised sheets and this letter should be issued to the bidding contractors:

SHEET FA-10:

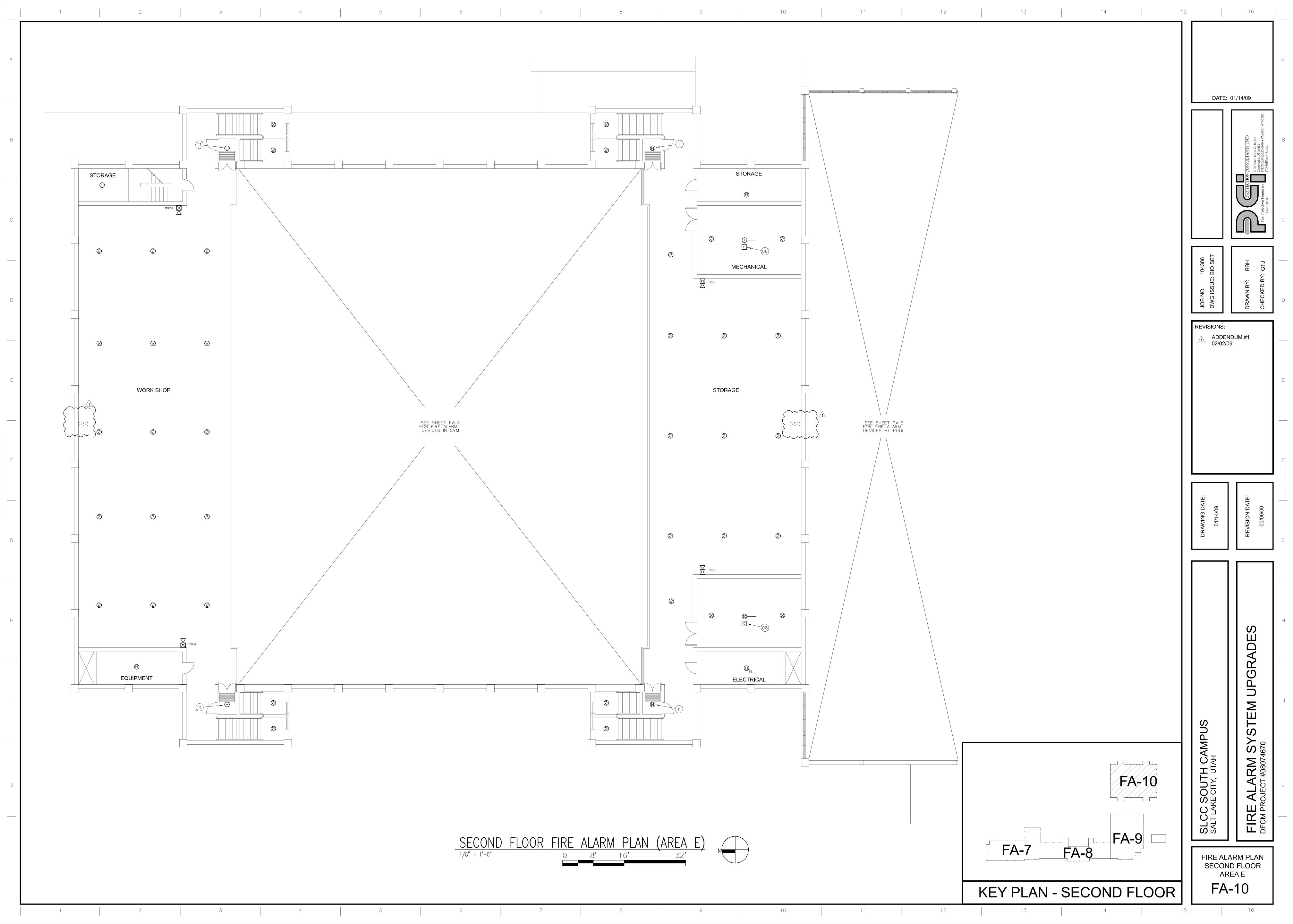
1. Indicated the location of two existing fire alarm notification appliances to be removed. I missed those devices in my survey and they were not shown on the bid set.

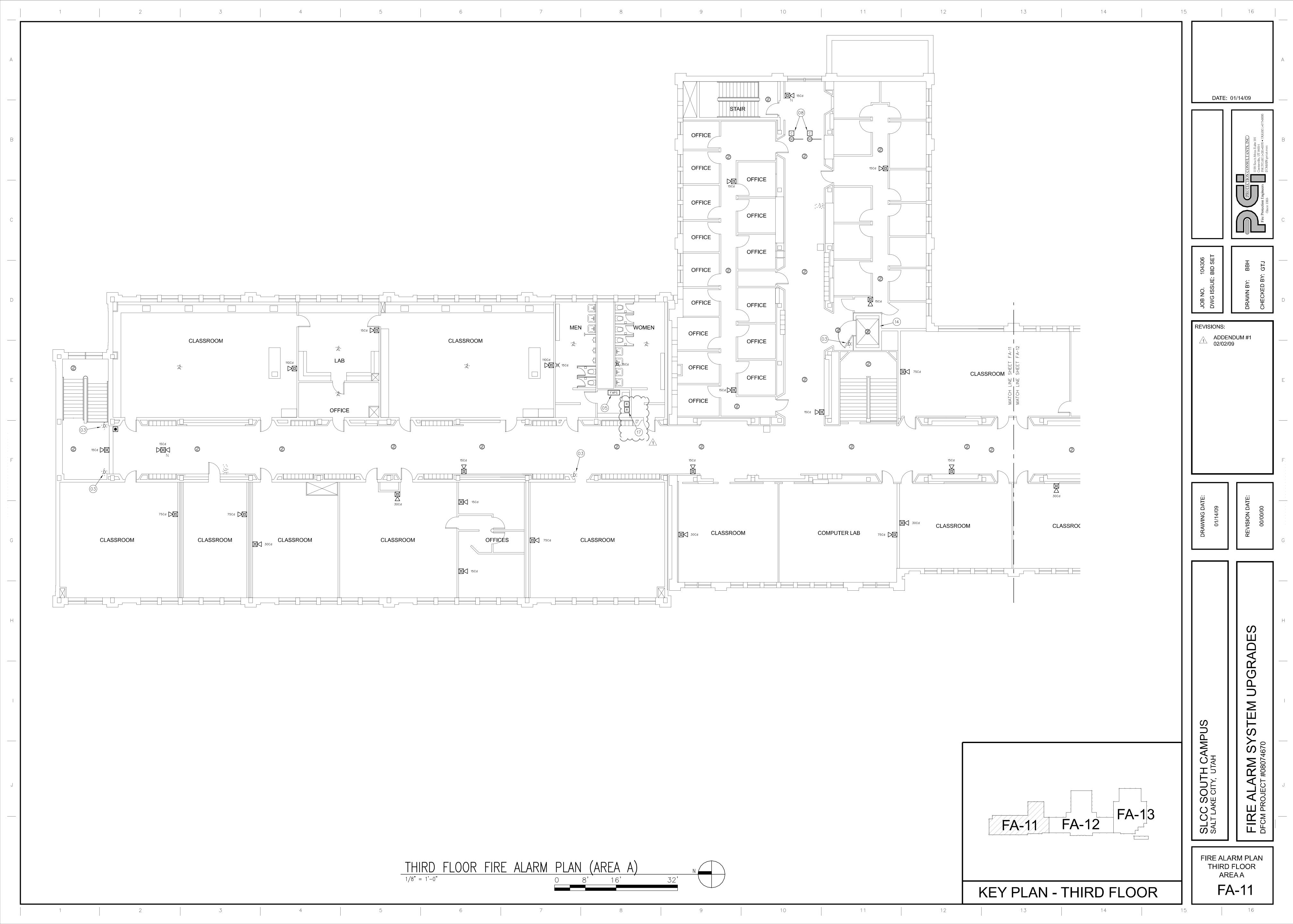
SHEETS FA-11 and FA-12:

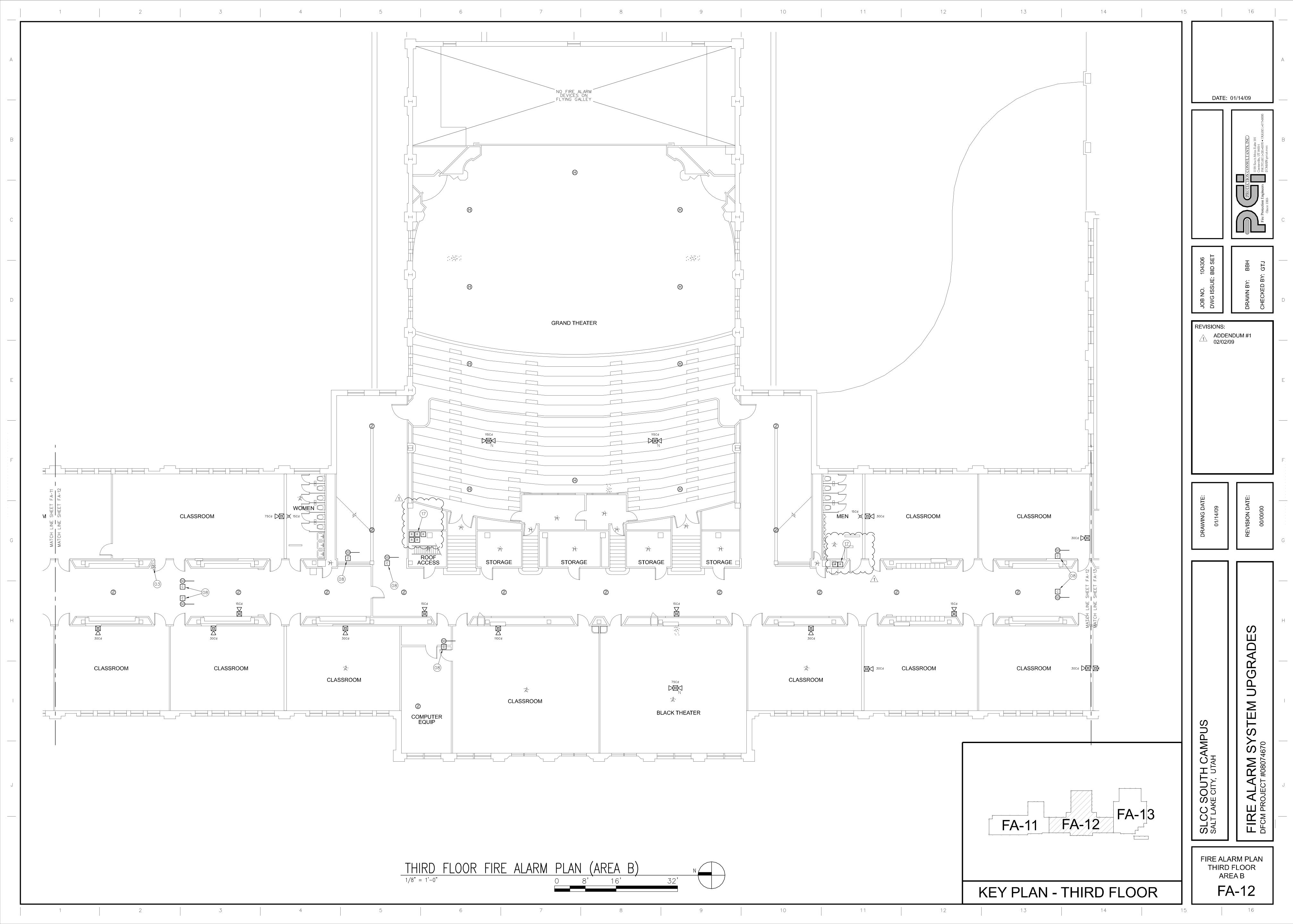
2. Added remote test switches for all duct smoke detectors located in difficult to access areas on the third floor.

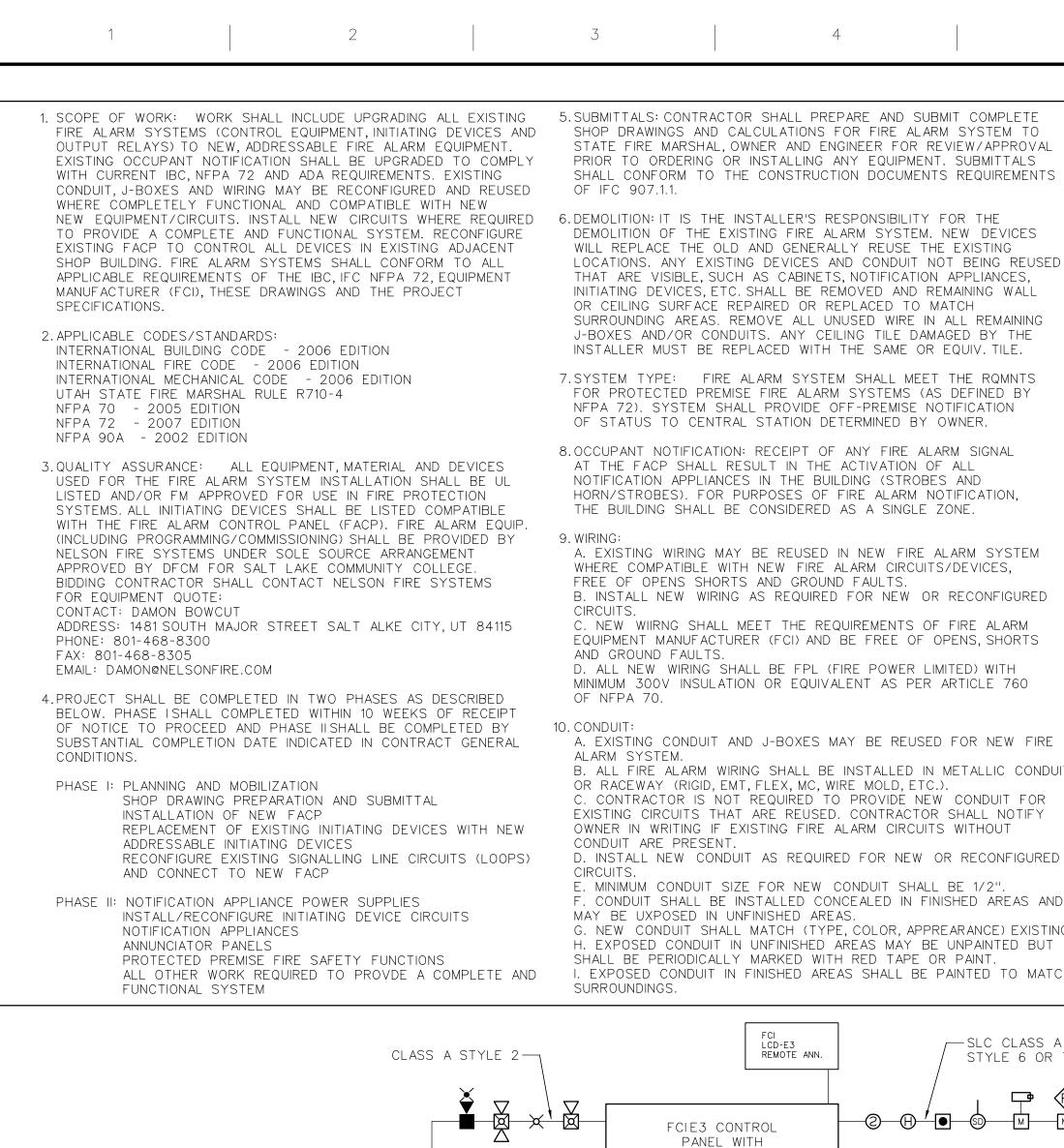
Sheet FA-19:

3. Updated legend and added a key note to describe the remote test stations for the duct smoke detectors









19. ACCESS PANELS: TO FACILITATE INSTALLATION OF FIRE ALARM CIRCUITS CONDUIT ARE PRESENT. DUCT SMOKE DETECTORS: INSTALL DUCT SMOKE DETECTORS AND DEVICES IN AREAS WITH PLASTER OR SHEETROCK CEILINGS, D. INSTALL NEW CONDUIT AS REQUIRED FOR NEW OR RECONFIGURED (SAMPLING TUBE TYPE) IN SUPPLY AND/OR RETURN DUCTS OF ALL CONTRACTOR MAY CUT CEILINGS AND INSTALL APPROVED ACCESS PANELS. AIR MOVEMENT SYSTEMS WITH A CAPACITY IN EXCESS OF 2,000 SIZE, STYLE AND LOCATION OF ACCESS PANELS SHALL BE APPROVED ON A . MINIMUM CONDUIT SIZE FOR NEW CONDUIT SHALL BE 1/2". CFM. INSTALL NEW DETECTORS AT SAME LOCATION AS EXISTING CASE BY CASE BASIS BY THE OWNER IN WRITING. ACCESS PANELS SHALL F. CONDUIT SHALL BE INSTALLED CONCEALED IN FINISHED AREAS AND DETECTORS WHERE PRESENT. INSTALL PER NFPA 72 AND BE INSTALLED PER MANUFACTURER'S RECCOMMENDATIONS AND MAY BE UXPOSED IN UNFINISHED AREAS. MANUFACTURER'S REQUIREMENTS. PATCHED/PAINTED TO MATCH SURROUNDING FINISHED SURFACES. G. NEW CONDUIT SHALL MATCH (TYPE, COLOR, APPREARANCE) EXISTING. H. EXPOSED CONDUIT IN UNFINISHED AREAS MAY BE UNPAINTED BUT SHALL BE PERIODICALLY MARKED WITH RED TAPE OR PAINT. I. EXPOSED CONDUIT IN FINISHED AREAS SHALL BE PAINTED TO MATCH -SLC CLASS A LCD-E3 REMOTE ANN. STYLE 6 OR 7 FCIE3 CONTROL PANEL WITH FIRE FAN ELEVATOR SHOP RECALL FACP DACT E3 - TYPICAL SIGNALING LINE CIRCUIT, NUMBER AND LAYOUT TYPICAL NOTIFICATION APPLIANCE --OF LOOPS TO BE DETERMINED CIRCUIT (SEE NAC NOTES BELOW) BY CONTRACTOR. PRIMARY AND SECONDARY PHONE LINES OUTPUT ACTIONS DOOR HOLDERS (D)-NAC NOTES: NUMBER AND LAYOUT OF NAC CIRCUITS 120 VAC — SECONDARY POWER SUPPLY TO BE DETERMINED BY CONTRACTOR. DEDICATED CONTRACTOR TO PROVIDE BATTERY SIZE CALCULATIONS POWFR DESIGN CIRCUITS TO LIMIT VOLTAGE (RE-USE EXISTING) DROP TO A MAXIMUM OF 1/20. PROVIDE ADDITIONAL POWER SUPPLIES AS REQUIRED. . CONTRACTOR TO PROVIDE VOLTAGE DROP CALCULATIONS FOR EACH CIRCUIT. FIRE ALARM PANEL SCHEMATIC (SPOT TYPE OR PROJECTED BEAM TYPE) PROJECTED BEAM SMOKE DETECTOR TROUBLE HEAT DETECTOR PULL STATION DUCT SMOKE DETECTOR NET CHEMICAL FIRE SUPPRESSION SYSTEM ACTIVATION IRE SPRINKLER WATER FLOW SWITCH IRE SPRINKLER VALVE SUPERVISORY SWITCH SMOKE DETECTOR IN ELEVATOR LOBBY, SHAFT OR EQUIPMENT ROOM SMOKE DETECTOR ON EITHER SIDE OF FIRE DOOR HEAT DETECTOR IN THEATER OR WATER FLOW SWITCH FOR THEATER ZONE ECEIPT OF FIRE ALARM SIGNAL FROM SHOP BUILDING FACP RECEIPT OF FIRE TROUBLE SIGNAL FROM SHOP BUILDING FACP LOSS OF AC POWER LOW BATTERY VOLTAGE REMOTE POWER SUPPLY TROUBLE CIRCUIT FAULTS

FIRE ALARM SYSTEM GENERAL NOTES

J. FLEXIBLE CONDUIT MAY BE USED FOR DROPS TO SINGLE DEVICES.

K. ALL PENETRATIONS THROUGH RATED PARTITIONS SHALL BE FIRE

12. WIRING STYLES(PER NFPA 72): INITIATING DEVICE CIRCUITS SHALL

SIGNALING LINE CIRCUITS SHALL MEET THE REQUIREMENTS FOR

CLASS A STYLE 6 CIRCUITS. NOTIFICATION APPLIANCE CIRCUITS

POWER DISTRIBUTION PANELS TO FACP AND EACH POWER SUPPLY.

EXISTING BRANCH CIRCUITS MAY BE REUSED WHERE COMPLETELY

FURNISH A BATTERY BACKUP TO PROVIDE SECONDARY POWER

SUPPLY TO FIRE ALARM PANELS AND REMOTE POWER SUPPLIES.

BATTERY BACKUP SHALL BE OF SUFFICIENT CAPACITY TO PROVIDE

SLC CIRCUITS: SLC LOOP DEVICE ADDRESSING SHALL NOT EXCEED

20 ADDRESSES (20%) SHALL BE LEFT VACANT ON EACH SLC LOOP

PLANS IN ALL CORRIDORS AND LOBBIES AND ABOVE CONTROL EQUIP.

MAXIMUM SPACING OF DETECTORS SHALL BE 30' BETWEEN DETECTORS

OR 15'FROM FURTHEST WALL. INSTALL DETECTORS ON RECESSED OR

IN ORDER TO ALLOW SPACE FOR ADJUSTMENTS/EXPANSION.

SMOKE DETECTORS: INSTALL SMOKE DETECTORS AS SHOWN ON

OR SURFACE MOUNT J-BOXES TIGHT TO CEILING/DECK. SMOKE

RELOCATED TO A MINIMUM DISTANCE OF 36" FROM DIFFUSER.

DETECTORS LOCATED WITHIN 36" OF HVAC DIFFUSERS SHALL BE

HEAT DETECTORS: INSTALL HEAT DETECTORS AS SHOWN ON PLANS

IN AREAS WITHOUT FIRE SPRINKLERS OR SMOKE DETECTORS AND IN

MECHANICAL/EQUIPMENT AREAS. MAXIMUM SPACING OF DETECTORS

SHALL BE 50' BETWEEN DETECTORS OR 25' FROM FURTHEST WALL.

REDUCE SPACING PER NFPA 72 FOR INSTALLATION IN HIGH CEILING

MANUAL PULL STATIONS: INSTALL NEW PULL STATIONS AS SHOWN

ON PLANS AT EACH BUILDING EXIT AND IN BOILER ROOMS. INSTALL

PULL STATIONS ON RECESSED OR SURFACE MOUNT J-BOXES WITH

THE OPERATING ELEMENT AT 48" AFF. ADJUST HEIGHT OF EXISTING

AREAS. INSTALL DETECTORS ON RECESSED OR SURFACE MOUNT

J-BOXES TIGHT TO CEILING/DECK. FOLLOW REQUIREMENTS OF

NFPA 72 FOR INSTALLATION UNDER BEAMED CEILINGS.

FIRE ALARM SYSTEM SEQUENCE OF OPERATION

J-BOXES AS REQUIRED.

160 DEVICES (80 DETECTORS AND 80 MODULES) PER LOOP. AT LEAST

24 HOURS OF STANDBY POWER WITH AN ADDITIONAL RESERVE TO

MEET THE REQUIREMENTS FOR CLASS A STYLE D CIRCUITS.

13. POWER: PROVIDE 120VAC (15 AMP MIN.) CIRCUIT FROM EXISTING

SHALL MEET THE REQUIREMENTS FOR CLASS A STYLE Z.

STOPPED WITH A SUITABLE CAULKING COMPOUND.

OPERATE SYSTEM FOR 5 MINUTES IN ALARM.

FUNCTIONAL.

STATE FIRE MARSHAL, OWNER AND ENGINEER FOR REVIEW/APPROVAL

SURROUNDING AREAS. REMOVE ALL UNUSED WIRE IN ALL REMAINING

J-BOXES AND/OR CONDUITS. ANY CEILING TILE DAMAGED BY THE

C. NEW WIIRNG SHALL MEET THE REQUIREMENTS OF FIRE ALARM

MINIMUM 300V INSULATION OR EQUIVALENT AS PER ARTICLE 760

B. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN METALLIC CONDUIT

. CONTRACTOR IS NOT REQUIRED TO PROVIDE NEW CONDUIT FOR

EXISTING CIRCUITS THAT ARE REUSED. CONTRACTOR SHALL NOTIFY

AND GROUND FAULTS.

EQUIPMENT MANUFACTURER (FCI) AND BE FREE OF OPENS, SHORTS

14. INITIATING DEVICES (CONTINUED):

AND MANUFACTURER'S REQUIREMENTS.

ADDRESS OF THE DEVICE MONITORED.

SERVICE IN THE BUILDING.

ONE DAY PRIOR TO SCHEDULED TEST.

BEAM DETECTORS: INSTALL PROJECTED BEAM TYPE SMOKE

DETECTORS AS INDICATED ON PLANS FOR LARGE OPEN AREAS WITH

TYPE WITH ADJUSTABLE SENSITIVITY AND BUILT-IN SENSITIVITY TEST

HIGH CEILINGS. DETECTORS SHALL BE SINGLE-ENDED, REFLECTIVE

FEATURE (INSTALL REMOTE TEST SWITCH). INSTALL PER NFPA 72

INPUT MODULES: PROVIDE ADDRESSABLE MODULES TO MONITOR

NEW OR EXISTING CONVENTIONAL INITIATING DEVICES (FIRE SPKR

SWITCHES, BEAM DETECTORS, ETC.). LOCATE MODULES ADJACENT

REMOVABLE CEILING TILE. MODULE SHALL HAVE EXTERNALLY VISIBLE

15. NOTIFICATION APPLIANCES: PROVIDE AUDIBLE AND VISUAL NOTIFICATION

SUFFICIENT TO PROVIDE A SOUND LEVEL OF 15 Db ABOVE AMBIENT IN

ALL OCCUPIED AREAS. VISIBLE ALARMS SHALL BE PROVIDED THROUGHOUT

ADA GUIDELINES. STROBES SHALL FLASH IN SYNCHRONIZATION. CONFIGURE

CIRCUITS TO ALLOW HORNS TO BE SILENCED WHILE STROBES CONTINUE

16. PROTECTED PREMISE FIRE SAFETY FUNCTIONS: INSTALL PROGRAMMABLE

36" OF DEVICE OR CIRCUIT CONTROLLED. ALL EXISTING PROTECTED

17. PHASING: PLAN SEQUENCE OF WORK TO MINIMIZE DOWN TIME OF

18. TESTING: SCHEDULE AND PERFORM ALL ACCEPTANCE TESTS

MARSHAL'S OFFICE, PROJECT ENGINEER, DFCM AND BUILDING

MAINTENANCE PERSONNEL. SUBMIT A WRITTEN TESTING PLAN

ETC.). OUTPUT MODULES SHALL BE INSTALLED WITHIN

OUTPUT MODULES WITH RELAY CONTACTS TO INITIATE REQUIRED FIRE

SAFETY FUNCTIONS (DOOR RELEASE, FAN SHUTDOWN, ELEVATOR RECALL,

PREMISE FIRE SAFETY FUNCTIONS CONTROLLED BY EXISTING FIRE ALARM

SYSTEM SHALL BE MIGRATED TO NEW SYSTEM AND TESTED TO VERIFY

FIRE ALARM SYSTEM. WHERE FIRE ALARM SYSTEM DISRUPTION OCCURS FOR

INSTALLER'S RESPONSIBILITY TO NOTIFY PROPER AUTHORITIES AND PROVIDE

A PERIOD OF LONGER THAN 4 HOURS WITHIN A 24 HOUR PERIOD BUILDING

MUST BE EVACUATED OR AN APPROVED FIRE WATCH PROVIDED. IT IS THE

A FIRE WATCH DURING INTERRUPTIONS OF FIRE DETECTION AND ALARM

REQUIRED BY NFPA 72. TESTING SHALL BE WITNESSED BY STATE FIRE

DETAILING EACH TEST TO BE PERFORMED TO EACH AGENCY AT LEAST

ALL OCCUPIED AREAS OF THE BUILDING AS REQURIED BY THE IBC AND

APPLIANCES THROUGHOUT BUILDING. VOLUME OF HORNS SHALL BE

TO DEVICE MONITORED IN AN ACCESSIBLE LOCATION OR ABOVE

LED TO INDICATE STATUS. LABEL MODULE WITH THE TYPE AND

FIRE ALARM EQUIPMENT LEGEND EST. QTY* DEVICE DESCRIPTION MOUNTING REMARKS SURFACE MOUNT AT SAME HEIGHT FIRE ALARM CONTROL PANEL (NEW) CI E3 SERIES. TO CONTROL ALL DEVICES N MAIN BLDG. RE ALARM CONTROL PANEL (EXISTING) CONFIGURE TO CONTROL ONLY DEVICES DIGITAL ALARM COMMUNICATOR/ RELAY SIGANLS FROM BOTH NEW AND ANSMITTER (EXISTING) XISTING CONTROL PANELS FCI PM-9 POWER SUPPLY TO POWER NOTIFICATION APPLIANCES. QUANTITY REMOTE POWER SUPPLY ND LOCATION TO BE DETERMINED BY CONTRACTOR FIRE ALARM ANNUNCIATOR PANEL OGRAMMABLE CONTROL RELAY SURFACE MOUNT ON J-BOX NEAR CONVENTIONAL DEVICE TO BE IITIATING DEVICE AS AN ADDRESSABLE CEILING MOUNT ON EXISTING J-BOX HOTOELECTRIC SMOKE DETECTOR FCI ASD-PL2F. ADD NEW DETECTOR WHERE INDICATED ON PLAN HOTOELECTRIC SMOKE DETECTOR \odot N REMOVE EXISTING DETECTOR AND INSTA COVER PLATE ON REMAINING J-BOX XED TEMPERATURE HEAT DETECTOR ECTOR WITH NEW HEAT DETECTOR REMOVE EXISTING PULL STATION AND INSTALL COVER PLATE ON REMAINING XISTING MANUAL PULL STATION REPLACE EXISTING BEAM DETECTOR WITH I AOPF. REPLACE EXISTING DUCT SMOKE TECTOR WITH NEW DEVICE SD---EXISTING DEVICE TO REMAIN. CONNECT NEW FACP TO PROVIDE POWER AND RELOCATED J-BOX BETWEEN 80" AND REPLACE EXISTING OR IN NEW LOCATION AS INDICATED ON PLAN. CANDELA RATING SYNCHRONIZED. DEVICES COLOR SHALL \times_{N} J-BOX BETWEEN 80" AND 96" AFF DRN/STROBE (WALL MOUNT) INSTALL NEW NOTIFICATION APPLIANCE T RELOCATED J-BOX BETWEEN 80" AND S INDICATED ON PLAN. CANDELA RATING ORN/STROBE (WALL MOUNT) BE SYNCHRONIZED. DEVICES COLOR SHALL BE WHITE. -BOX BETWEEN 80" AND 96" AFF HORN/STROBE (EXISTING) REMOVE EXISTING DEVICE AND PROVIDE COVER PLATE ON EXISTING J-BOX. RELOCATED J-BOX BETWEEN 80" AND INDICATED ON PLAN, CANDELA RATIN E SYNCHRONIZED. DEVICES COLOR SHALL CEILING MOUNT ON NEW RECESSED OR BE WHITE. ORN/STROBE (CEILING MOUNT) HORN/STROBE (EXISTING) REMOVE EXISTING DEVICE AND PROVIDE COVER PLATE ON EXISTING J-BOX TERIOR HORN/STROBE

SURFACE MOUNT J-BOX AT 54" AFF

~\@T\^TO_BE^\FRIP\EB\^B\^CONTRACTOR\^^\^\^\^\^\\

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INDICATED ON PLAN, CANDELA RATING

CI RTS451KEY REMOTE TEST SWITCH FOR DUCT SMOKE DETECTOR IN INACCESSIBLE

EXISTING FIRE ALARM NOTIFICATION APPLIANCE IS LOCATED ABOVE MAXIMUM HEIGHT OF 96" ALLOWED BY NFPA 72. REMOVE EXISTING NOTIFICATION APPLIANCE AND J-BOX AND RELOCATE TO BE BETWEEN 80" AND 96" AFF. INSTALL NEW J-BOX RECESSED INTO WALL WITH ALL CONDUITS CONCEALED INSIDE WALL. PATCH AND PAINT WALL AS REQUIRED TO PROVIDE A FINISHED SURFACE TO MATCH SURROUNDINGS.

FIRE ALARM SYSTEM KEY NOTES

INSTALL NEW ADDRESSABLE RELAY TO OPERATE EXISTING FIRE DOOR. PROGRAM RELAY TO RELEASE FIRE DOOR UPON ACTIVATION OF SMOKE DETECTORS ON EITHER SIDE OF DOOR. TEST FIRE DOOR FOR PROPER OPERATION. PERFORM MINOR REPAIRS/ADJUSTMENTS TO EXISTING DOOR AS REUQIRED. NOTIFY OWNER/ENGINEER IN WRITING IF DOOR IS NOT OPERATIONAL OR IF DOOR REQUIRES MAJOR REPAIR.

EXISTING FLOOR OR WALL MOUNTED MAGNETIC DOOR HOLD-OPEN DEVICE TO REMAIN. PROVIDE POWER SUPPLY TO EXISTING DOOR HOLDERS FROM NEW FACP OR REMOTE POWER SUPPLIES (120 VAC POWER FROM BUILDING POWERE SYSTEM IS ALSO ACCEPTABLE). INSTALL FIRE ALARM RELAY TO DISCONNECT POWER AND CLOSE DOORS UPON ANY FIRE ALARM SIGNAL.

EXISTING COMMERCIAL COOKING HOOD WITH WET CHEMICAL FIRE SUPPRESSION SYSTEM TO REMAIN. PROVIDE ADDRESSABLE MONITOR MODULE TO INTERFACE ACTUATION RELAY OF FIRE SUPPRESSION SYSTEM TO BUILDING FIRE ALARM SYSTEM. PROGRAM ACTIVATION OF FIRE SUPPRESSION SYSTEM AS A FIRE ALARM SIGNAL.

ACCEPTABLE LOCATION FOR INSTALLATION OF REMOTE NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLIES (CONTRACTOR'S OPTION). PROVIDE DEDICATED 120 VAC POWER CIRCUIT TO POWER SUPPLIES FROM ANY NEARBY POWER DISTRIBUTION PANEL AND PROVIDE SECONDARY POWER SUPPLY (BATTERIES) SIZED TO PROVIDE A MINIMUM OF 24 HOURS OF STANDBY POWER PLUS AN ADDITIONAL 5 MINUTES OF ALARM POWER. CONNECT POWER SUPPLIES TO FACP TO PROVIDE ACTIVATION FOR NOTIFICATION APPLIANCES AND SUPERVISION OF POWER SUPPLY AND NAC CIRCUITS (TROUBLE

INSTALL NEW FCIE3 SERIES FIRE ALARM CONTROL PANEL (FACP) TO CONTROL ALL FIRE ALARM INITIATING DEVICES, NOTIFICATION APPLIANCES, ANNUNCIATORS, CONTROL RELAYS, FIRE ALARM INTERFACES, ETC. IN MAIN SOUTH CAMPUS BUILDING. INSTALL FACP AT LOCATION OF EXISTING ANNUNCIATOR PANEL TO BE REMOVED. INSTALL ALL REQUIRED CABINETS, MODULES, INTERFACE CARDS, POWER SUPPLIES, ETC. TO PROVIDE A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM. FACP SHALL HAVE SUFFICIENT CAPACITY TO MONITOR ALL INITIATING DEVICES SHOWN ON THE PLANS WITH AN ADDITIONAL SPARE CAPACITY OF 20% FOR FUTURE EXPANSION. EXISTING 120 VAC DEDICATED POWER CIRCUIT MAY BE REUSED BUT PROVIDE NEW BATTERIES FOR THE SECONDARY POWER SUPPLY. PROVIDE NEW SIGNALLING LINE CIRCUITS FROM FACP TO ALL INITIATING DEVICES/CONTROL RELAYS AND PROVIDE NOTIFICATION APPLIANCE CIRCUITS FROM FACP (OR REMOTE POWER SUPPLIES) TO ALL NOTIFICATION APPLIANCES. EXISTING CIRCUITS MAY BE RECONFIGURED AND REUSED IF COMPLETELY FUNCTIONAL AND COMPATIBLE WITH NEW FACP/DEVICES.

EXISTING GAMEWELL ANNUNCIATOR PANEL TO BE REMOVED AND REPLACED WITH NFW FACP. REMOVE EXISTING CABINET AND REPLACE WITH NEW SURFACE MOUNT CABINET FOR FACP. PATCH/REFINISH EXPOSED WALL SURFACE AS REQUIRED TO MATCH SURROUNDINGS. UPDATE DEVICE MAPS MOUNTED ADJACENT TO ANNUNCIATOR AS REQUIRED TO REFLECT CHANGES TO FIRE ALARM SYSTEM PERFORMED UNDER THIS CONTRACT AND MOUNT NEW DEVICE MAPS IN EXISTING FRAMES.

INSTALL PROGRAMMABLE RELAY AND INTERFACE WITH HVAC SYSTEM CONTROLS TO PROVIDE SHUT DOWN OF ALL AIR MOVEMENT SYSTEMS WITH A CAPACITY IN EXCESS 2.000 CFM. CONTRACTOR TO FIELD VERIFY LOCATION AND NUMBER OF HVAC SYSTEMS TO INTERFACE WITH FIRE ALARM SYSTEM AND COORDINATE CONNECTION OF CONTROLS WITH BUILDING MAINTENANCE PERSONNEL. PROGRAM RELAYS TO SHUT DOWN ALL SYSTEMS WITHING BUILDING UPON ACTIVATION OF ANY DUCT SMOKE DETECTOR OR ANY GERNAL FIRE ALARM SIGNAL, RELAY SHALL BE NORMALLY ENERGIZED AND FAN CONTROLS SHALL BE CONNECTED TO NORMALLY CLOSED CONTACTS ON THE RELAY. RELAY SHALL NOT RESTORE UNTIL FACP HAS BEEN RESET.

REPLACE EXISTING PROJECTED BEAM TYPE SMOKE DETECTORS WITH NEW GAMEWELL PROJECTED BEAM SMOKE DETECTORS (OR APPROVED EQUAL). INSTALL TWO MONITOR

MODULES (FOR ALARM AND TROUBLE RELAYS) AT EACH DETECTOR CONTROLLER TO FACILITATE CONNECTION OF DETECTOR TO FACP AS AN ADDRESSABLE POINT. PROVIDE SUPERVISED 24 VDC POWER TO DETECTOR CONTROLLER FROM FIRE ALARM SYSTEM (FACP OR REMOTE POWER SUPPLY). NSTALL MONITOR MODULES TO FACILITATE CONNECTION OF EXISTING INTERIOR AND EXTERIOR FIRE SPRINKLER DEVICES (WATER FLOW SWITCHES AND VALVE SUPERVISORY SWITCHES) TO NEW FIRE ALARM SYSTEM. PROVIDE A SEPARATE MODULE/ADDRESS FOR EACH CONTROL VALVE AND WATER FLOW SWITCH. PROGRAM ACTIVATION OF VALVE SUPERVISORY SWITCHES AS A SUPERVISORY SIGNAL AND ACTIVATION OF WATER FLOW SWITCHES AS A FIRE ALARM SIGNAL.

EXISTING HEAT DETECTOR IS MOUNTED ON WALL OF ROOM MORE THAN 12" BELOW CEILING/DECK IN VIOLATION OF NFPA 72. REMOVE DETECTOR, JUNCTION BOX AND CONDUIT. RELOCATE AND REINSTALL JUNCTION BOX ON CEILING/DECK OR WALL 4" TO 12" BELOW CEILING/DECK. INSTALL NEW ADDRESSABLE HEAT DETECTOR ON RELOCATED JUNCTION BOX.

EXISTING FIRE ALARM CONTROL PANEL TO REMAIN. RECONFIGURE EXISTING PANEL TO CONTROL ONLY FIRE ALARM DEVICES IN ADJACENT SHOP BUILDING. PROVIDE ADDRESSABLE MODULES FROM NEW FIRE ALARM SYSTEM TO RELAY ALARM, SUPERVISORY AND TROUBLE SIGNALS FROM SHOP BUILDING TO OFF-PREMISE CENTRAL

STATION VIA DACT IN NEW FACP. INSTALL NEW, ADDRESSABLE RELAYS AT ELEVATOR EQUIPMENT TO INITIATE PRIMARY AND SECONDARY ELEVATOR RECALL FUNCTIONS. RECALL FUNCTIONS FOR EACH ELEVATOR SHALL BE INDEPENDENT OF ALL OTHER ELEVATORS. PRIMARY RECALL TO INITIATE UPON ACTIVATION OF SMOKE/HEAT DETECTORS IN ELEVATOR SHAFT, EQUIPMENT ROOM OR BASEMENT, SECOND AND THIRD FLOOR ELEVATOR LOBBIES SECONDARY RECALL TO INITIATE UPON ACTIVATION OF SMOKE DETECTOR IN FIRST FLOOR ELEVATOR LOBBY. COORDINATE CONNECTION OF CONTROL RELAYS TO ELEVATOR EQUIPMENT WITH ELEVATOR SERVICE CONTRACTOR.

INSTALL NEW DIGITAL ALARM COMMUNICATOR/TRANSMITTER (DACT) IN FACP AND CONNECT/CONFIGURE TO RELAY ALL FIRE ALARM, SUPERVISORY AND TROUBLE SIGNALS FROM EXISTING (SHOPS BUILDING) AND NEW (SOUTH CAMPUS BUILDING) FIRE ALARM CONTROL PANELS TO REMOTE MONITORING STATION. EXISTING PHONE LINES AND MONITORING ACCOUNT MAY BE REUSED.

INSTALL NEW FCILVD-E3 REMOTE ANNUNCIATOR PANEL ADJACENT OT PULL STATION AT MAIN BUILDING ENTRY. ANNUNCIATOR MAY BE SURFACE MOUNTED BUT ALL CONDUIT SHALL BE CONCEALED IN WALL. PROVIDE NEW CIRCUIT (MINUMUM OF 4 INSTALL REMOTE TEST STATION (FCIRTS451KEY) FOR EACH DUCT MOUNTED SMOKE DETECTOR LOCATED IN AN INACCESSIBLE LOCATION ABOVE THRID FLOOR CEILING. LOCATE TEST STATION WHERE INDICATED ON PLAN OR ALTERNATE LOCATION PROPOSED BY CONTRACTOR AND APPROVED BY ENGINEER. CONNECT TEST STATION TO DUCT SMOKE DETECTOR PER MANUFACTURER'S RECCOMMENDATIONS AND LABEL EACH TEST STATION WITH AIR HANDLER UNIT NUMBER AND DETECTOR ADDRESS.

DATE: 01/14/09

ADDENDUM #1

REVISIONS:

02/02/09

FIRE ALARM NOTES **DETAILS &** SCHEDULES

FA-19